

The listing of claims will replace all prior versions, and listings, of claims in the application. The original claims 24-36 are amended herein and new claims 37-40 are added.

Listing of Claims:

Cancel claims 1-23.

24. (original) A calcium fluoride crystal producing graphite crucible for making a calcium fluoride crystal with increased far-ultraviolet transmission, said graphite crucible comprised of a graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than $4 \text{ cm}^2/\text{s}$.

25. (Amended) The A calcium fluoride crystal producing graphite crucible according to ~~for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~ in claim 24, said graphite having a Hg porosity of at least 16.7%.

26. (Amended) The A calcium fluoride crystal producing graphite crucible according to ~~for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~ in claim 24, said graphite having a Hg porosity of at least 20%.

27. (Amended) The A calcium fluoride crystal producing graphite crucible according to ~~for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~ in claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than $5 \text{ cm}^2/\text{s}$.

28. (Amended) The A calcium fluoride crystal producing graphite crucible according to ~~for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~ in claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than $6 \text{ cm}^2/\text{s}$.

29. (Amended) The A calcium fluoride crystal producing graphite crucible according to ~~for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~ in claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than $7 \text{ cm}^2/\text{s}$.

30. (Amended) The A calcium fluoride crystal producing graphite crucible according
~~to for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~
in claim 24, said graphite having a permeability of which, measured according to the DIN
51935 Standard, is greater than 8 cm²/s.

31. (Amended) The A calcium fluoride crystal producing graphite crucible according
~~to for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~
in claim 24, said graphite having a permeability of which, measured according to the DIN
51935 Standard, is greater than 9 cm²/s.

32. (Amended) The A calcium fluoride crystal producing graphite crucible according
~~to for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~
in claim 24, said graphite having a permeability of which, measured according to the DIN
51935 Standard, is greater than 10 cm²/s.

33. (Amended) The A calcium fluoride crystal producing graphite crucible according
~~to for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~
in claim 24, said graphite having a permeability of which, measured according to the DIN
51935 Standard, is greater than 11 cm²/s.

34. (Amended) The A calcium fluoride crystal producing graphite crucible according
~~to for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~
in claim 24, said graphite having a permeability of which, measured according to the DIN
51935 Standard, is greater than 12 cm²/s.

35. (Amended) The A calcium fluoride crystal producing graphite crucible according
~~to for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~
in claim 24, said graphite having a permeability of which, measured according to the DIN
51935 Standard, is greater than 13 cm²/s.

36. (Amended) The A calcium fluoride crystal producing graphite crucible f according
~~to for making a calcium fluoride crystal with increased far ultraviolet transmission as claimed~~

in claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than $14 \text{ cm}^2/\text{s}$.

37. (New) A graphite crucible suitable for growing monocrystals of alkali and alkaline earth metal fluorides, said crucible being comprised of a graphite having a permeability greater than $4 \text{ cm}^2/\text{s}$ when measured according to DIN Standard 51935

38. (New) The graphite crucible according to claim 37, wherein the graphite has a permeability greater than $10 \text{ cm}^2/\text{s}$ when measured according to DIN Standard 51935.

39. (New) The graphite crucible according to claim 37, wherein the graphite has a permeability is greater than $14 \text{ cm}^2/\text{s}$ when measured according to DIN Standard 51935.

40. (New) The graphite crucible according to claim 37, wherein the graphite has a Hg porosity of at least 16.7%.